

# How to Read This Supplemental Report

The SARS-CoV-2 variant therapeutic data in this report have been curated in collaboration with the National Institutes of Health (NIH) [Accelerating COVID-19 Therapeutic Interventions and Vaccines \(ACTIV\) Preclinical Working Group](#) with support from the Foundation for the National Institutes of Health (FNIH). New and updated information will be added on a weekly basis as more studies are shared. Please continue to check back as our curated database grows. Please contact us at [NCATSOpenDataPortal@nih.gov](mailto:NCATSOpenDataPortal@nih.gov) with any feedback, comments, or questions to help us improve this resource.

## What Data is Included?

The underlying data in these visualizations has been curated, in collaboration with ACTIV, from a prioritized set of publications (both preprints and peer-reviewed articles). To improve data accuracy, publications are limited to prominent therapeutic agents (both approved and in clinical trial), with an emphasis on studies conducted 1) by the sponsoring pharmaceutical company or 2) with a government partner. **The OpenData Portal does not intend to serve as a comprehensive dashboard for all variant therapeutic data published in the literature.**

## How to Interpret the Visualizations

The visualization graphics are meant to provide a quick-glance summary of how **individual SARS-CoV-2 variants** may respond to known therapeutics, compared to reference strains. The displayed fold-change values represent data collected from published *in vitro* viral neutralization assays comparing variants to a reference strain.

**Of important note**, the data displayed were generated:

- From different assay types and conditions
- By different research laboratories
- Using different reference strains
- With test material from different sources/of potentially different grades, tested at different dose ranges

As a result, the visualizations **should not be used to conduct side-by-side comparisons** of therapeutics. Reported minimum fold reduction values (e.g. >1000-fold) may have greater actual fold change values than those displayed. Furthermore, the data shown are collected from *in vitro* assays, and it is not known how *in vitro* neutralization assay data correlate with clinical outcomes. It is worth noting that the experimental therapeutic concentrations are not necessarily correlated to clinical concentrations; thus therapeutics with large reported fold reductions in activity **may still be active against the variants in clinical settings**, as standard dosing/exposure in patients could exceed the required therapeutic window. Lastly, the data may be from preliminary reports that **have not been peer reviewed** and thus should not be regarded as conclusive, guide clinical practice or health decisions, or be reported in news media as established information.

**Interactive versions of these graphics are available on the [OpenData Portal Visualization Page](#)**  
Additional details on the visualized data are available on the [NCATS OpenData Portal](#).

## New to the OpenData Portal Variant Database this week:

### New Pre-prints and Publications:

1. [Molecular basis of immune evasion by the delta and kappa SARS-CoV-2 variants](#) [Pre-print]
2. [Preliminary Analysis of Safety and Immunogenicity of a SARS-CoV-2 Variant Vaccine Booster](#) [Pre-print]
3. [BNT162b2-Elicited Neutralization against New SARS-CoV-2 Spike Variants](#) [Peer-reviewed publication]
4. [BNT162b2 vaccine induces neutralizing antibodies and poly-specific T cells in humans](#) [Peer-reviewed publication]

### Updated Pre-prints and Publications:

1. [Durability of mRNA-1273 vaccine-induced antibodies against SARS-CoV-2 variants](#) [Peer-reviewed publication]

## OpenData Portal | SARS-CoV-2 Variants & Therapeutics Therapeutic Activity Explorer

Updated 8.20.21

91 data sources 3073 activity data points

OpenData Portal, in collaboration with ACTIV and industry partners, has compiled a database of in vitro therapeutic activity against SARS-CoV-2 variants from a prioritized set of publications (both preprints and peer-reviewed articles).

## Visualize and Explore the OpenData Portal Variant Data:

B.1.1.7

B.1.351

B.1.617.2

AY.1

AY.2

P.1

B.1.427/429

B.1.525

B.1.526

B.1.617

C.37

P.2

Other Variants

Data for All Variants

Single Point Mutation Data

What's new in the last week?

## New *in vitro* neutralization data added to NCATS OpenData Portal last week

### Variant Tested

